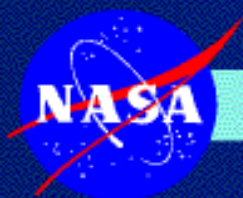




# **EARTH SCIENCE ENTERPRISE PROGRAMMATIC OVERVIEW**

**Gran Paules  
Office of Earth Science**



# Office of Earth Science Program Overview

*Presentation to the ESSP AO-2 Preproposal  
Conference*

*Mr. Granville Paules*

*23 April 1998*

**Office of Earth Science**



## Key Findings from Biennial Review

- **Technology Infusion Strategy**
  - Drive technology development efforts based on science needs
  - Fund technology development that supports more efficient and cost-effective instrument implementation and shortens mission development cycle
- **Implementation of MTPE Program After 2002**
  - Future MTPE missions planned to implement the 5 MTPE science themes
    - Flexibility to respond to emerging science questions incorporated
  - New partnerships will be sought in international, interagency and commercial areas
  - Principal Investigator (PI)-driven solicitation approach will be utilized as much as appropriate
  - Shorter development times will result from increased focus on instrument technology development and increased reliance on commercial spacecraft
  - Allow time for learning from 1st series missions before soliciting follow-on missions

## New Ways of Doing Business

- **Maintaining a responsive, open science program beyond 2002**
  - **Plans are in place to complete first phase of measurements**
  - **Near-term decisions will focus on defining process vs monitoring measurements in land use/land cover and global productivity research required as follow-on to the AM-1 and Landsat-7 measurements initiated in 1998.**
  - **National Assessment (Regional Workshops), expanded partnering with Mission Agencies, and inclusion of Stennis programs are significantly expanding outreach and practical application of research and technology**
  - **All subsequent measurements will be recompeted in a manner to ensure the responsiveness to science priorities and technology capabilities**
  - **This will allow initiation of technology and partnering activities to support these measurements in the 2004 period**

## OES Program Implementation

- **Earth System Science Pathfinder (ESSP)**
- **Instrument Incubator Program (IIP)**
- **Concepts for Post-EOS Science and Applications Missions**
- **Earth Orbiting Commercial Remote Sensing Program (EOCAP)**
- **UAV Science Program**
- **LightSAR Program**
- **New Millennium Program (NMP)**